

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION X

IDAHO OPERATIONS OFFICE  
422 WEST WASHINGTON STREET  
BOISE, IDAHO 83702

June 5, 1988



MEMORANDUM

SUBJECT: Cyprus Mining Company  
ID-002540-2, Compliance Sampling Inspection

FROM: Dan R. McDonough  
Environmental Protection Specialist

TO: Wally Scarburgh  
NPDES Coordinator

On May 25, 1988, I conducted an NPDES compliance sampling inspection at the Cyprus Mining Company, Thompson Creek project. Mr. Bert Doughty, Supervisor Environmental Affairs, accompanied me on the inspection. At the time of the inspection, samples were collected from discharges #001 and #002 for TSS, Total: Arsenic, Cadmium, Copper, and Zinc. All samples were taken to the State Lab in Boise for analyses. Samples for pH were analyzed on site. Based on sample results obtained from the State Lab, the Cyprus Mining Company is meeting current permit requirements.

0224A

State of Idaho  
Department of Health & Welfare  
BUREAU OF WATER QUALITY  
BUREAU OF LABORATORIESWATER QUALITY REPORT  
CHEMICAL REPORT

See Back For Instructions

## COPY DISTRIBUTION

White - Person requesting test

Canary - Lab

Pink - Water Quality Bureau (Storet)

Goldenrod - Extra as needed

RECEIVED

JUN 17 1988

IDAHO OPERATIONS OFFICE

## LAB NAME (Check One)

- ☐
- Boise
- 
- ☐
- Coeur d'Alene
- 
- ☐
- Idaho Falls
- 
- ☐
- Lewiston
- 
- ☐
- Pocatello
- 
- ☐
- Twin Falls

STORET No. \_\_\_\_\_

NPDES No. \_\_\_\_\_

Date of Collection (Yr., Mo., Day) 88/05/25

Time of Collection \_\_\_\_\_

Depth (Meters) \_\_\_\_\_

(24 Hr. Clock)

Circle One

DM DBM DVM

## TYPE OF SAMPLES (Check appropriate boxes)

- ☐
- Wastewater
- ☐
- Raw
- ☒
- Final
- ☐
- Chlorinated
- 
- ☐
- Grab
- ☐
- Cross Composite
- ☐
- Depth Integrated
- 
- ☐
- Composite: Begin \_\_\_\_\_ End \_\_\_\_\_

## SAMPLE TAKEN FROM (Check one)

- ☐
- Spring
- ☐
- Creek
- ☐
- River
- ☐
- Reservoir
- ☐
- Well
- 
- ☐
- Lake
- ☐
- Lagoon
- ☐
- STP
- ☒
- Industrial
- ☐
- Drain

## PRESERVED SAMPLES SUBMITTED

- ☒
- Cooled, 4° C
- ☐
- HNO
- <sub>3</sub>
- 
- ☐
- H
- <sub>2</sub>
- SO
- <sub>4</sub>
- ☐
- NaOH
- ☐
- Other \_\_\_\_\_

Sampling Point Location Cyprus Mining Co.002Date Submitted (Yr., Mo., Day) 88/05/21Submitted By D.R. McDonough

## PURPOSE OF SAMPLE (Check one)

- ☐
- Intensive Survey
- ☐
- Trend
- 
- ☐
- Compliance
- ☐
- Other \_\_\_\_\_

STORET  
Code

RESIDUE (mg/L)

- (00500) ☐ Total Residue \_\_\_\_\_
- (00530) ☒ Non-Filterable  
Residue (105° C)  
(Suspended Solids) \_\_\_\_\_ <2
- (70300) ☐ Filterable Residue \_\_\_\_\_
- (80154) ☐ Non-Filterable  
Residue (110° C)  
(Susp. Sediment) \_\_\_\_\_

- ( ) ☐ Other Residue \_\_\_\_\_

## TRACE METALS (ug/L)

## DISSOLVED METALS

- (01000) ☐ Arsenic, Dissolved \_\_\_\_\_
- (01020) ☐ Boron, Dissolved \_\_\_\_\_
- (01025) ☐ Cadmium, Dissolved \_\_\_\_\_
- (01030) ☐ Chromium, Dissolved \_\_\_\_\_
- (01040) ☐ Copper, Dissolved \_\_\_\_\_
- (01046) ☐ Iron, Dissolved \_\_\_\_\_
- (01049) ☐ Lead, Dissolved \_\_\_\_\_
- (01056) ☐ Manganese, Dissolved \_\_\_\_\_
- (71890) ☐ Mercury, Dissolved \_\_\_\_\_
- (01065) ☐ Nickel, Dissolved \_\_\_\_\_
- (01075) ☐ Silver, Dissolved \_\_\_\_\_
- (01090) ☐ Zinc, Dissolved \_\_\_\_\_
- ( ) ☐ Other \_\_\_\_\_
- ( ) ☐ Other \_\_\_\_\_

## TOTAL METALS

- (01002) ☒ Arsenic, Total <10
- (01022) ☐ Boron, Total \_\_\_\_\_
- (01027) ☒ Cadmium, Total <1
- (01032) ☐ Chromium, + 6 \_\_\_\_\_
- (01034) ☐ Chromium, Total \_\_\_\_\_
- (01042) ☒ Copper, Total <10
- (01045) ☐ Iron, Total \_\_\_\_\_
- (01051) ☒ Lead, Total <3
- (01055) ☐ Manganese, Total \_\_\_\_\_
- (71900) ☒ Mercury, Total <0.5
- (01067) ☐ Nickel, Total \_\_\_\_\_
- (01077) ☐ Silver, Total \_\_\_\_\_
- (01092) ☒ Zinc, Total 14
- ( ) ☐ Other \_\_\_\_\_
- ( ) ☐ Other \_\_\_\_\_

Date Completed \_\_\_\_\_ Date Reported 6/16/88

Chemist \_\_\_\_\_

Remarks: \_\_\_\_\_

JUN 16 1988

## RETURN TEST RESULTS TO

Name

Address

City

State

Zip Code

D.R. McDonough422 W. Wash.BoiseId.83702



State of Idaho  
Department of Health & Welfare  
BUREAU OF WATER QUALITY  
BUREAU OF LABORATORIES

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- 
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- Lewiston
- 
- ☐
- Pocatello
- 
- ☐
- Twin Falls

STORET No. \_\_\_\_\_  
NPDES No. \_\_\_\_\_  
Date of Collection (Yr., Mo., Day) 88/05/25  
Time of Collection \_\_\_\_\_ Depth (Meters) \_\_\_\_\_  
(24 Hr. Clock) Circle One DM DBM DVM

## TYPE OF SAMPLES (Check appropriate boxes)

- ☐
- Wastewater
- ☐
- Raw
- ☒
- Final
- ☐
- Chlorinated
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- ☐
- Grab
- ☐
- Cross Composite
- ☐
- Depth Integrated
- 
- ☐
- Composite: Begin \_\_\_\_\_ End \_\_\_\_\_

## SAMPLE TAKEN FROM (Check one)

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- HNO
- <sub>3</sub>
- 
- ☐
- H
- <sub>2</sub>
- SO
- <sub>4</sub>
- ☐
- NaOH
- ☐
- Other \_\_\_\_\_

Sampling Point Location Cyrus Mining Co.  
001  
Date Submitted (Yr., Mo., Day) 88/05/31  
Submitted By D.R. McDonough

## PURPOSE OF SAMPLE (Check one)

- ☐
- Intensive Survey
- ☐
- Trend
- 
- ☒
- Compliance
- ☐
- Other \_\_\_\_\_

STORET Code	RESIDUE (mg/L)
(00500) <input type="checkbox"/>	Total Residue _____
(00530) <input checked="" type="checkbox"/>	Non-Filterable Residue (105° C) (Suspended Solids) _____ <u>6</u>
(70300) <input type="checkbox"/>	Filterable Residue _____
(80154) <input type="checkbox"/>	Non-Filterable Residue (110° C) (Susp. Sediment) _____
( ) <input type="checkbox"/>	Other Residue _____

## TRACE METALS (ug/L)

## DISSOLVED METALS

- |                                  |                            |
|----------------------------------|----------------------------|
| (01000) <input type="checkbox"/> | Arsenic, Dissolved _____   |
| (01020) <input type="checkbox"/> | Boron, Dissolved _____     |
| (01025) <input type="checkbox"/> | Cadmium, Dissolved _____   |
| (01030) <input type="checkbox"/> | Chromium, Dissolved _____  |
| (01040) <input type="checkbox"/> | Copper, Dissolved _____    |
| (01046) <input type="checkbox"/> | Iron, Dissolved _____      |
| (01049) <input type="checkbox"/> | Lead, Dissolved _____      |
| (01056) <input type="checkbox"/> | Manganese, Dissolved _____ |
| (71890) <input type="checkbox"/> | Mercury, Dissolved _____   |
| (01065) <input type="checkbox"/> | Nickel, Dissolved _____    |
| (01075) <input type="checkbox"/> | Silver, Dissolved _____    |
| (01090) <input type="checkbox"/> | Zinc, Dissolved _____      |
| ( ) <input type="checkbox"/>     | Other _____                |
| ( ) <input type="checkbox"/>     | Other _____                |

## TOTAL METALS (Recoverable)

- |   |                                     |
|---|-------------------------------------|
| (01002) <input checked="" type="checkbox"/> | Arsenic, Total _____ <u>&lt;10</u>  |
| (01022) <input type="checkbox"/>            | Boron, Total _____                  |
| (01027) <input checked="" type="checkbox"/> | Cadmium, Total _____ <u>&lt;1</u>   |
| (01032) <input type="checkbox"/>            | Chromium, + 6 _____                 |
| (01034) <input type="checkbox"/>            | Chromium, Total _____               |
| (01042) <input checked="" type="checkbox"/> | Copper, Total _____ <u>&lt;10</u>   |
| (01045) <input type="checkbox"/>            | Iron, Total _____                   |
| (01051) <input checked="" type="checkbox"/> | Lead, Total _____ <u>&lt;3</u>      |
| (01055) <input type="checkbox"/>            | Manganese, Total _____              |
| (71900) <input checked="" type="checkbox"/> | Mercury, Total _____ <u>&lt;0.5</u> |
| (01067) <input type="checkbox"/>            | Nickel, Total _____                 |
| (01077) <input type="checkbox"/>            | Silver, Total _____                 |
| (01092) <input checked="" type="checkbox"/> | Zinc, Total _____ <u>27</u>         |
| ( ) <input type="checkbox"/>                | Other _____                         |
| ( ) <input type="checkbox"/>                | Other _____                         |

Date Completed \_\_\_\_\_ Date Reported 6/16/88  
Chemist \_\_\_\_\_  
Remarks: JUN 16 1988

## RETURN TEST RESULTS TO

Name D.R. McDonough  
Address 422 W. Washington  
City Boise State Id. Zip Code 83702